



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/672,154	09/27/2000	Masahiko Sato	450100-02733	6619

20999 7590 01/08/2007
FROMMER LAWRENCE & HAUG
745 FIFTH AVENUE- 10TH FL.
NEW YORK, NY 10151

EXAMINER

RAMAN, USHA

ART UNIT	PAPER NUMBER
----------	--------------

2623

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

09/672,154

Applicant(s)

SATO, MASAHIKO

Examiner

Usha Raman

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133): Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 6-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 10th, 2006 has been entered.

Response to Arguments

2. Applicant's arguments filed August 10th, 2006 have been fully considered but they are not persuasive. Dunn discloses that the program ID uniquely identifies a program data record corresponding to a program content, wherein the program data records comprise data including scheduled time of the program. The program ID is therefore a function of content and a time slot as recited in the claim. See Dunn: column 5, lines 59-63. As a result the rejection is maintained.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
4. Claims 1-4, and 6-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dunn (US Pat. 5,945,987) in view of Wheeler (US Pre Grant Pub. 2001/0056478).

In regards to claims 1 and 9, Dunn discloses a broadcast program retrieval system for retrieving a desired broadcast program among a plurality of broadcast programs, comprising:

A data server (22) including a database (44) configured to receive and store broadcast program information (i.e. program records, see column 2, lines 54-62), and at least one function for searching the broadcast program information, which includes at least one program retrieval identification code (program ID) and other information related to broadcast programs (see column 3, lines 19-33),

The program ID uniquely identifies a program data record corresponding to a program content, wherein the program data records comprise data including scheduled time of the program. The program ID is therefore a function of content and a time slot. See column 5, lines 59-63.

A user server configured to receive (see column 3, lines 28-30) and store the broadcast program information (column 6, lines 18-25 and column 9, lines 30-35), said user server operating to send to the data server at least one content keyword for searching the broadcast program information for the desired broadcast program (see column 7, lines 20-25) and receiving a select number of program data records including program ID, the select number of program data records relating to the content keyword as a result of the searching by the data server. See column 3, lines 16-20 and lines 28-30.

Wherein data server enables said user server to retrieve a select number of broadcast program information stored in the user server (see column 8, lines 43-49),

Art Unit: 2623

and allows a user to review the select number of broadcast program information (see column 10, lines 35-40, and lines 65-66) and to select the desired broadcast program from among a select number of broadcast programs corresponding reviewed select number of broadcast program information (see column 12, lines 64-67 and column 13, lines 1-3). Dunn also discloses that the broadcast programs maybe broadcast over various types of network, including a satellite network. See column 2, lines 36-44.

Dunn fails to disclose that the broadcast program information stored on the data server and user server are identical and that the user server is operative to receive from the data server only a select number of program retrieval identification codes related to a query result; wherein the select number of program retrieval identification codes received from the data server enables the user to retrieve the broadcast program information.

Wheeler discloses a system comprising a user server storing data identical to the data on the data server, wherein the user server operative to receive from the data server only a select number of program retrieval identification codes (URL) related to a query result (i.e. request for webpage containing information), wherein the select number of program retrieval identification codes (i.e. URL) received from the data server enables the user to retrieve the broadcast program information (see [0012] from the user server and [0028]) for review rather than downloading the data from the data server.

It would have been obvious to one of ordinary skill in the art at the time of the invention in view of Wheeler by to storing identical data (i.e. broadcast program information) in the data server and user server and further allowing the data server to send only the identifiers (i.e. program ID) of the files associated with the search, for local retrieval of the data at the user server. The motivation is to reduce transmission bandwidth and time, and increase data access speed (see Wheeler, [0014], [0028], [0033]) when responding to user queries.

In regards to claim 2, the user server in the modified system is connected to the head end through a communication link (cable network). Note figure 1 in Dunn.

In regards to claim 3, the modified system comprises search criteria including element of the content forming the broadcast program, such as category, title, actor, etc. Note column 7, lines 20-25 in Dunn.

In regards to claim 4, the modified system uniquely identifies each of the broadcast programs by a program ID in the program data record. Therefore the broadcast program inherently has a program ID appended in an "event information region" in order to properly identify the program specified by a program ID. Note column 2, lines 56-59 in Dunn.

In regards to claim 6, the program information sent of by the head end to the user server is used by a plurality of applications running on the set top box including an electronic program guide. Note column 4, lines 1-5 in Dunn.

In regards to claims 8 and 11, the data server of the modified system comprises a "keyword" database where a plurality of keywords related to a program

(such as categories, title, actor, etc.) are used to match at least one content keyword (search criteria) received from the user server. Note column 8, lines 55-67 and column 9, lines 1-7 in Dunn.

In regards to claim 14, the searching functions provided in the modified system has the capability for a viewer to select items from the "viewer list" that contain the programs that have been added by the user and therefore reflecting the user's preference. Note column 10, lines 32-36 and column 9, lines 55-63 of Dunn.

In regards to claim 7 and 10, the modified system does not disclose that the program ID is unique for each of the plurality of broadcasts of the same program. Official notice is taken that program data event in an EPG are uniquely identified by the channel and time (as seen on an EPG grid). It would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the system in order to identify each of the program records by a combination of its channel and time information, thereby allowing each airing of a program event to be uniquely identified, according to its channel and airtime time.

In regards to claim 12, the modified system lacks that the program retrieval system updates the keyword database with any changes made to other information related to the broadcast programs. Official notice is taken that it is well known for head ends often receive schedule update information from a plurality of satellite feeds (downlink feed) and/or other master head end sources. Therefore changes in the information related to a program are reflected in updated program information records received from such master head ends. Therefore it would be

obvious to one of ordinary skill in the art at the time of the invention to further modify the system with a master head end for providing information reflecting any changes in the broadcast program information, in order to ensure that the local head ends have the most up to date broadcast program information.

In regards to claim 13, the program information record in the modified system includes other information related to the broadcast programs such as cast members (list of performers) appearing on each of the broadcast programs in addition to program ID. Note column 5, lines 56-67 in Dunn.


Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usha Raman whose telephone number is (571) 272-7380. The examiner can normally be reached on Mon-Fri: 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (571) 272-7331. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Usha Raman


CHRIS KELLEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600